

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Metal Tech, Inc. 7635 W. 2nd Court Hialeah, FL 33014

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER- Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: "Maximum Impact Duraweld" Aluminum Hinged Bahama Shutter

APPROVAL DOCUMENT: Drawing No. 27102, titled "Maximum Impact Bahama Shutter", sheets 1 through 5 of 5, prepared by Ramms Engineering, Inc., dated December 01, 2007, signed and sealed by Robert S. Monsour, P.E., on March 27, 2008, bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, the following statement: "Miami-Dade County Product Control Approved", NOA number, and TAS-201, TAS-202, and TAS-203, unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA # 07-1210.03 and consists of this page 1, evidence submitted page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by Jaime D. Gascon, P.E.

MIAMI-DADE COUNTY
APPROYED

J.Cusan 4/18/13 NOA No. 13-0306.03 Expiration Date: 05/08/2018 Approval Date: 04/25/2013 Page 1

Metal Tech, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. 27102, titled "Maximum Impact Bahama Shutter", sheets 1 through 5 of 5, prepared by Ramms Engineering, Inc., dated December 01, 2007, signed and sealed by Robert S. Monsour, P.E., on March 27, 2008.

B. TESTS

1. Test report on TAS201-Large Missile Impact Test, TAS203-Cyclic Wind Pressure Test, and TAS202-Uniform Static Air Pressure Test of "Bahama Shutters", prepared by American Test Lab of South Florida, report No. ATLSF #1130.01-05, dated 06/26/2006, signed and sealed by William R. Mehner, P.E., and Henry Hattem, P.E. (SUBMITTED UNDER PREVIOUS APPROVAL # 07-1210.03.)

C. CALCULATIONS

1. Metal Tech Duraweld Bahama Shutter Calculations prepared by Ramms Engineering, Inc., dated March 11, 2008, signed and sealed by Robert S. Monsour, P.E., on March 27, 2008. (SUBMITTED UNDER PREVIOUS APPROVAL # 07-1210.03.)

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

Component Material Reports of Aluminum Bahama Shutters, prepared by MI Metals, Inc. with material specifications.
 (SUBMITTED UNDER PREVIOUS APPROVAL # 07-1210.03.)

F. STATEMENTS

1. Statement letter of conformance and compliance with the FBC-2010, dated 02/19/13, signed and sealed by Robert S. Monsour, P. E.

G. OTHERS

1. Notice of Acceptance No. 07–1210.03, issued to Metal Tech, Inc. for their "Maximum Impact Duraweld Aluminum Hinged Bahama Shutter", approved on 05/08/08 and expiring on 05/08/13.

Jaime D. Gascon, P.E.

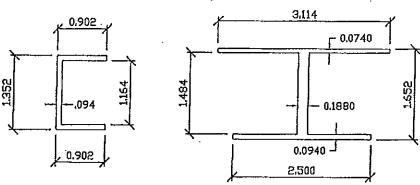
Product Control Section Supervisor NOA No. 13-0306.03

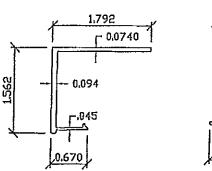
> Expiration Date: 05/08/2018 Approval Date: 04/25/2013

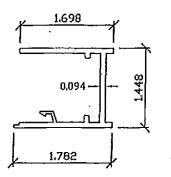


TETALLECH, INC.

MAXIMUM IMPACT **DURAWELD BAHAMA SHUTTER**







NOTES:

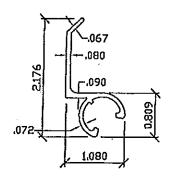
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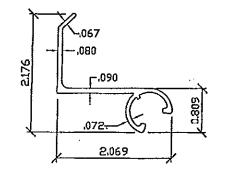
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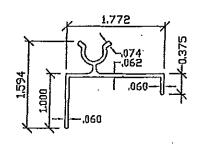
OUTTER FRAME



FEMALE HINGE

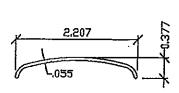


B/O FEMALE HINGE

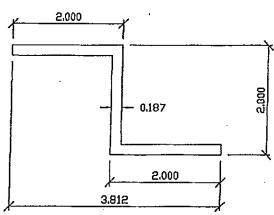


MALE HINGE

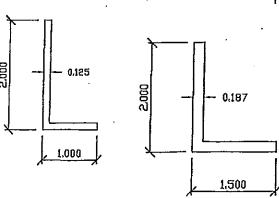
CORNER KEY.



BLADE



ALTERNATE TO TO



2,500-3,000

(10) TIE DOWN ANGLE BRACKETS

ROBERT S. MONSOUR, PE 11955

HIGH VELOCITY HURRICANE ZONE

THIS METAL TECH BAHAMA SHUTTER COMPLIES WITH THE FLURIDA BUILDING CODE

FBC CERTIFIED TESTING IN ACCORDANCE WITH TAS 201-94, AND 202-94 AND 203-94 PROTUCALLS ALSO IN ACCORDANCE WITH E 1886-02 AND E 1996-02 STANDARDS

MINIMUM DESIGN LOADS CALCULATIONS PERFORMED PER ASCE 7 MINUMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES' ALL ALUMINUM EXTRUSIONS TO BE ALLOY 6063-T6

BACKING SHALL BE .093 THICK POLYCARBANATE SECURED WITH #64 or #68 S.S. POPRIVETS 15" O.C. MAX.

ANCHORAGE OF SHUTTER TO CONCRETE OR MASONARY AT HEADER SHALL BE WITH 1/4" MASONARY SÇREWS WITH 1 1/4" MINIMUM EMBEDMENT,

ANCHORAGE OF SHUTTER TO CONCRETE OR MASONARY AT BRACKETS SHALL BE 1/4-20 MACHINE SCREW ANCHOR WITH 7/8" MINIMUM EMBEDMENT OR FEMALE PANELMATE WITH 1/4-20 M/S (FLOOR PLUG) WITH 1 1/4" MINIMUM EMBEDMENT OR 1/4" MALE PANELMATE WITH 1/4-20 WASHERED WINGNUTS WITH 1 1/4" MINIMUM EMBEDMENT.

ANCHORAGE OF SHUTTER TO WOOD AT HEADER SHALL BE 1/4" WOOD LAGS WITH 1" MIN. EMBEDMENT OR 1/4" MASONARY SCREWS WITH 1 7/8' MINIMUM EMBEDMENT

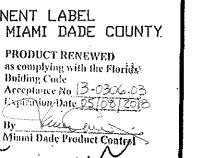
ANCHDRAGE OF SHUTTER TO VOOD AT BRACKETS SHALL BE 1/4" MALE PANELMATES WITH 1/4-20 WASHERED WINGNUTS OR 1/4" FEMALE PANELMATE WITH 1/4-20 M.S. (FLOOR PLUG) WITH 1 7/8" MINIMUM EMBEDMENT.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE TO INSURE PROPER ANCHORAGE

EACH BAHAMA SHUTTER SHALL BEAR PERMANENT LABEL SHOWING METAL TECH, INC. HIALEAH, FL - MIAMI DADE COUNTY. PRODUCT CONTROL APPROVED

Approved as complying with the

Florida Buiding Code

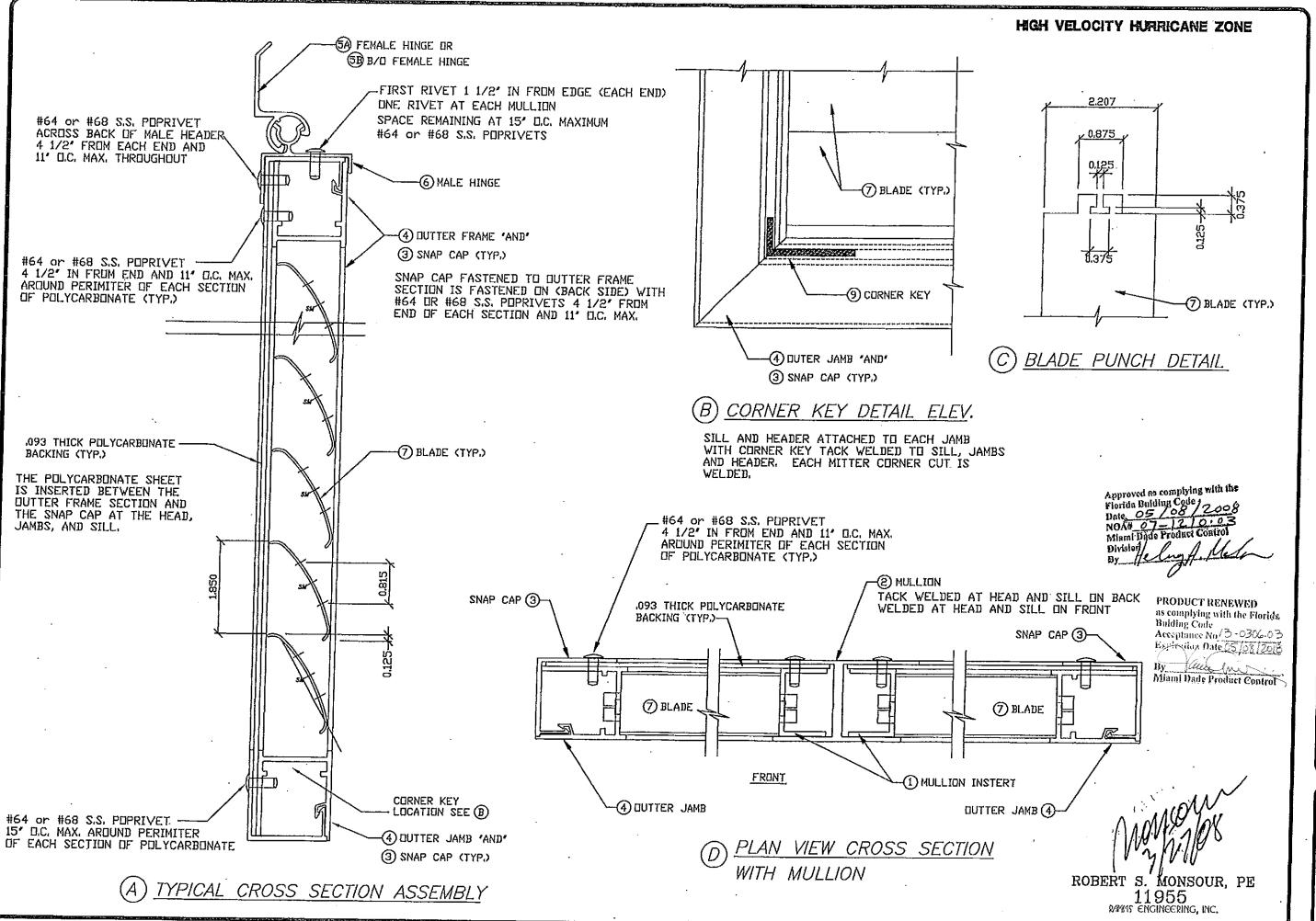


12/01/2007 SHOWN

270102

ENGINEERING, INC. RAMMS

REVISIONS



REVISIONS BY

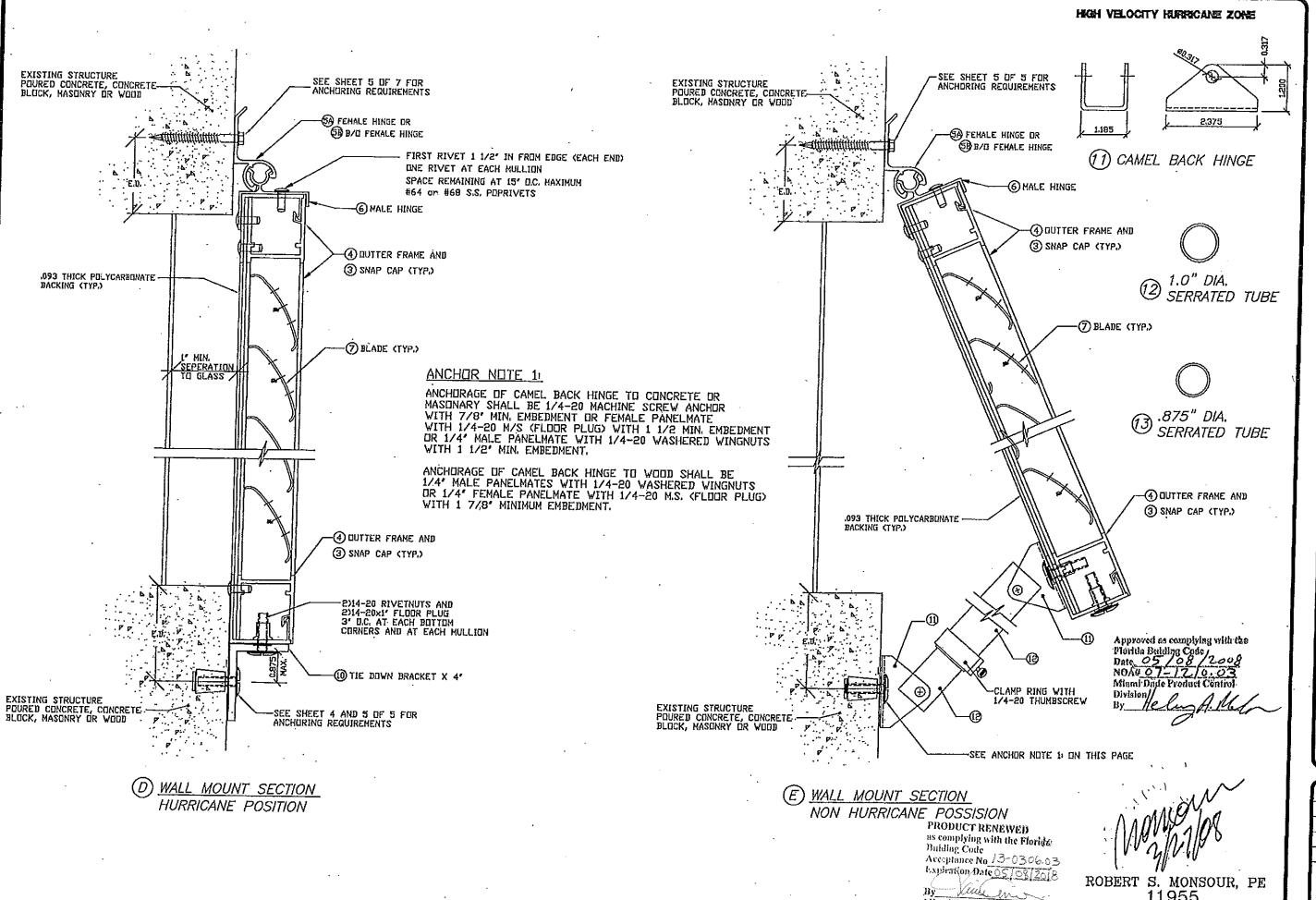
RAMMS ENGINEERING, INC.

Enacoo En

METALIECH, INC.



SEP / RSM 12/01/2007 SHOWN 27102



REVISIONS

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ENGINEERING, RAMMS

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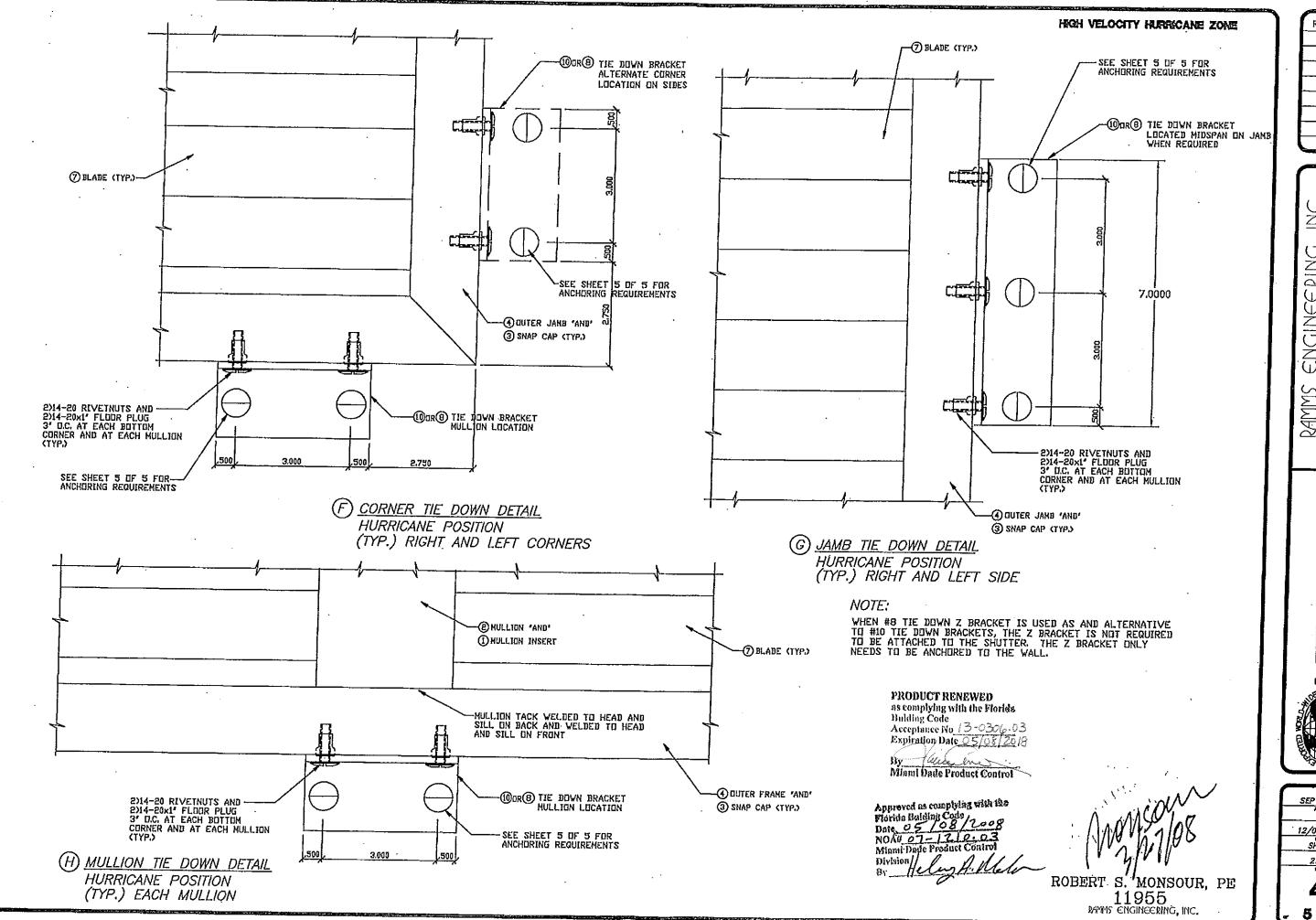
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RATIMS ENGINEERING, INC.

Miami Dade Product Control



REVISIONS BY

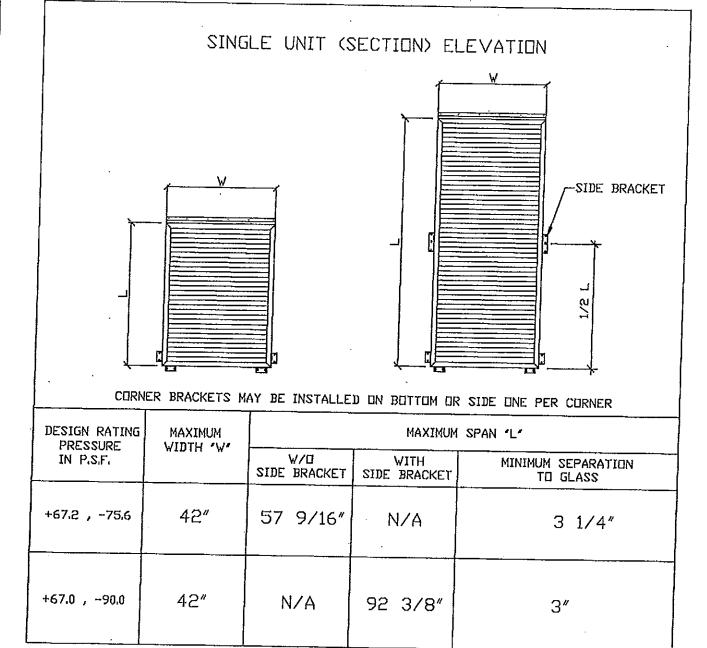
RAMMS ENGINEERING, INC.

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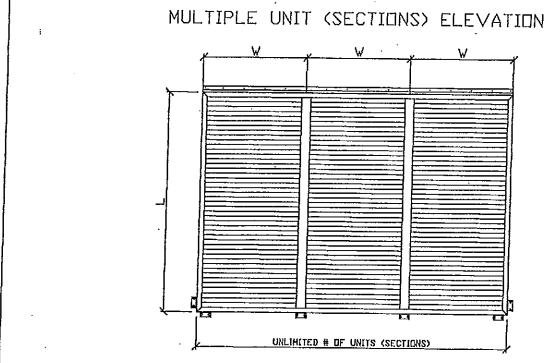
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CHART 1 MAXIMUM SIZE VS DESIGN PRESSURE



SEE SHEET 4 OF 5 FOR BRACKET SPECIFICATIONS

CHART 2 MAXIMUM SIZE VS DESIGN PRESSURE



CORNER BRACKETS MAY BE INSTALLED ON BOTTOM OR SIDE ONE PER CORNER

DESIGN RATING PRESSURE IN P.S.F.	MAXIMUM WIDTH 'W'	MAXIMUM SPAN 'L'		
		W/O SIDE BRACKET	WITH SIDE BRACKET	MINIMUM SEPARATION TO GLASS
+54.0 , -70.0	30″	85 1/4*	N/A	3 9/16″

SEE SHEET 4 OF 5 FOR BRACKET SPECIFICATIONS

PRODUCT RENEWED as complying with the Floride

Acceptance No 13-030603 Expiration Date 05/08/2018

Miami Dade Product Control

Buiding Code

ANCHORAGE OF SHUTTER TO CONCRETE OR MASONARY AT HEADER SHALL BE WITH 1/4' MASONARY SCREWS WITH 1 1/4' MINIMUM EMBEDMENT.

ANCHORAGE OF SHUTTER TO CONCRETE OR MASONARY
AT BRACKETS SHALL BE 1/4-20 MACHINE SCREW ANCHOR WITH
7/8' MIN. EMBEDMENT OR FEMALE PANELMATE WITH 1/4-20 M/SU
(FLOOR PLUG) WITH 1 1/2' MIN. EMBEDMENT OR 1/4' MALE
PANELMATE WITH 1/4-20 WASHERED WINGOUTS WITH 1 1/2'
MIN. EMBEDMENT.

ANCHORAGE OF SHUTTER TO WOOD AT HEADER SHALL BE 1/4" WOOD LAGS WITH 1" MIN. EMBEDMENT OR 1/4" MASONARY SCREWS WITH 1 7/8" MINIMUM EMBEDMENT

ANCHORAGE OF SHUTTER TO WOOD AT BRACKETS SHALL BE 1/4' MALE PANELMATES WITH 1/4-20 WASHERED WINGHUTS OR 1/4' FEMALE PANELMATE WITH 1/4-20 M.S. (FLOOR PLUG) WITH 1 7/8' MINIMUM EMBEDMENT.

Approved as complying with the Florida Building Code
Date 05/08/2008
NOA#-07-1210,03
Miami Dade Product Control
Division/

ROBERT & MONSOUR, PE

REVISIONS BY

ENGINEERING, INC.

METALIE

SEP / RSM MINOR 12/01/2007 SHOWN 27102

ANCHOR SPACING

ALL BRACKET ANCHOR SPACING 6" D.C. ALL BRACKET ANCHOR SPACING 3" D.C.

INTO WOODEN STRUCTURES

ANCHOR SPACING

ALL HEADER ANCHOR SPACING 8" D.C. ALL BRACKET ANCHOR SPACING 3" D.C.

INTO POURED CONCRETE OR CONCRETE BLOCK